

**Amendments to the Claims:**

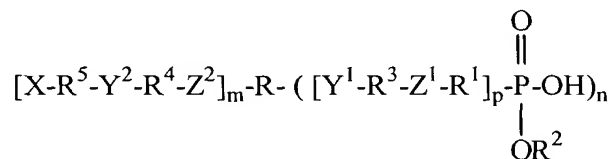
1. (Currently amended) A composition comprising ~~Compositions characterized in that they contain~~ an acid and an organic polymer which has carboxyl and/or hydroxyl groups.

2. (Currently amended) Composition according to claim 1, wherein the composition ~~characterized in that it contains an acid which~~ has a solubility of 0.5 to 20 wt.-% in water or in a mixture of 50 wt.-% water and 50 wt.-% ethanol.

3. (Currently amended) Composition according to claim 1, wherein the ~~or 2, characterized in that it contains an acid with~~ has protein- and/or calcium-precipitating properties.

4. (Currently amended) Composition according to claim 1, wherein the ~~one of the claims 1 to 3, characterized in that it contains as an acid is~~ a carboxylic acid, sulphonic acid and/or phosphonic acid.

5. (Currently amended) Composition according to claim 4, wherein the ~~characterized in that it contains a phosphonic acid of~~ has a formula



in which

n is 1, 2, 3 or 4,

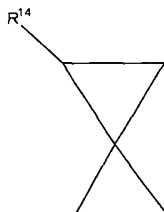
m is 0, 1 or 2,

p is 0 or 1,

R is a straight-chained or branched aliphatic hydrocarbon radical with 1 to 12 carbon atoms or an aromatic hydrocarbon radical with 6 to 12 carbon atoms or an aliphatic/aromatic hydrocarbon radical with 7 to 16 carbon atoms, which can be substituted by OH, NH<sub>2</sub> and/or COOR<sup>6</sup>,

R<sup>1</sup> is a C<sub>1</sub> to C<sub>12</sub> alkylene, C<sub>4</sub> to C<sub>12</sub> cycloalkylene, C<sub>6</sub> to C<sub>12</sub> arylene or C<sub>7</sub> to C<sub>16</sub> alkylenearylene radical, which can be substituted by OH, NH<sub>2</sub> and/or COOR<sup>6</sup>, or is absent,

- $R^2$  is H, a  $C_1$  to  $C_6$  alkyl or a phenyl radical,  
 $R^3, R^4$  each mean, independently of each other, a  $C_1$  to  $C_{12}$  alkylene,  $C_6$  to  $C_{12}$  arylene or  $C_7$  to  $C_{16}$  alkylenearylene radical, which can be substituted by methyl, phenyl or fluorine, or are absent,  
 $R^5$  is  $-\text{CH}=\text{CR}^{13}-$ , a prop-1-ene-1, 3-diyl,  $C_1$  to  $C_6$  alkenylene,  $C_3$  to  $C_9$  cycloalkylene,  $C_1$  to  $C_6$  alkylene or phenylene radical or a group of formula



- $R^6$  is H, a  $C_1$  to  $C_6$  alkyl or a phenyl radical,  
 $Z^1, Z^2$  each mean, independently of each other, CO-O, CO-NR<sup>7</sup>, O-CO-NH, O, NH, S or are absent,  
 $Y^1, Y^2$  each mean, independently of each other, O, CO-O, CO-NR<sup>8</sup>, O-CO-NH or are absent,  
 $R^7, R^8$  each mean, independently of each other, H, or a  $C_1$  to  $C_6$  alkyl radical,  
 $X$  is H, CN,  $\text{N}(\text{R}^9)_2$ , OR<sup>10</sup>, COOR<sup>11</sup> or CONR<sub>2</sub><sup>12</sup>,  
 $R^9, R^{10}, R^{11}, R^{12}$  each mean, independently of each other, H, a  $C_1$  to  $C_{10}$  alkyl or a phenyl radical,  
 $R^{13}$  is H or a methyl radical,  
 $R^{14}$  is H or a  $C_1$  to  $C_{10}$  alkyl, vinyl or phenyl radical.

6. (Currently amended) Composition according to claim 5, wherein

~~characterized in that~~

- $n$  is 1 or 2 and/or  
 $m$  is 1 and/or  
 $p$  is 0 and/or  
 $R$  is an aliphatic straight-chained or branched mono- to pentavalent alkane radical with 1 to 7 carbon atoms, an aromatic hydrocarbon radical with 6 carbon atoms or an aliphatic/aromatic hydrocarbon radical with 8 carbon atoms and/or  
 $R^1$  is a methylene or ethylene radical or is absent and/or

- $R^2$  is H, a methyl or ethyl radical and/or
- $R^3, R^4$  each mean, independently of each other, a methylene, ethylene, trimethylene, p-phenylene, ethylidene, 1-methylene ethane-1,2-diyl radical or are absent and/or
- $R^5$  is a methylene, ethylene, trimethylene, ethane-1, 2-diyl, methylethylene, prop-1-ene-1, 3-diyl, or a cyclopropylidene radical monosubstituted in 2 position or is absent and/or
- $R^6$  is H and/or
- $Z^1, Z^2$  each mean, independently of each other, CO-O, O-CO-NH or O or are absent and/or
- $Y^1, Y^2$  each mean, independently of each other, O, CO-O or CO-NR<sup>8</sup> or are absent and/or
- $R^7, R^8$  each mean, independently of each other, H or a methyl or ethyl radical and/or
- X is H, CN, COOR<sup>11</sup> or CONR<sub>2</sub><sup>12</sup> and/or
- $R^9, R^{10}, R^{11}, R^{12}$  each mean, independently of each other, H or a methyl, ethyl or phenyl radical and/or
- $R^{13}$  is H or a methyl radical,
- $R^{14}$  is H or a vinyl or phenyl radical.

7. (Currently amended) Composition according to claim 5, wherein

**characterized in that**

- n is 1,
- m is 1,
- p is 0,
- R is a C<sub>1</sub> to C<sub>3</sub> alkylene or phenylene radical,
- $R^2$  is H,
- $R^4$  is a branched or straight-chained C<sub>1</sub> to C<sub>6</sub> alkylene radical which can be substituted by 1 to 2 fluorine atoms and/or 1 phenyl radical or is absent,
- $R^5$  is a 1-methylene ethane-1, 2-diyl radical,
- $Z^2$  is absent,
- $Y^2$  is O or is absent,
- X is COOR<sup>11</sup> and
- $R^{11}$  is H or a C<sub>1</sub> to C<sub>5</sub> alkyl or phenyl radical.

8. (Currently amended) Composition according to claim 5, wherein  
~~characterized in that~~
- n is 2,  
m is 2,  
p is 1,  
R is a quadrivalent aliphatic, aromatic, or aliphatic-aromatic hydrocarbon radical  
with 2 to 12 carbon atoms,  
R<sup>1</sup> is absent,  
R<sup>2</sup> is H,  
R<sup>3</sup> is a C<sub>1</sub> to C<sub>3</sub> alkylene or phenylene radical or is absent,  
R<sup>4</sup> is a branched or straight-chained C<sub>1</sub> to C<sub>6</sub> alkylene radical which can be  
substituted by 1 to 2 fluorine atoms and/or 1 phenyl radical or is absent,  
R<sup>5</sup> is a 1-methylene ethane-1, 2-diyl radical,  
Z<sup>1</sup>, Z<sup>2</sup> are absent,  
Y<sup>1</sup> is absent,  
Y<sup>2</sup> is O or is absent,  
X is COOR<sup>11</sup> and  
R<sup>11</sup> is H or a C<sub>1</sub> to C<sub>5</sub> alkyl or phenyl radical.
9. (Currently amended) Composition according to claim 4, wherein the one of  
~~claims 4 to 8, characterized in that~~ it contains as carboxylic acid is maleic acid and/or  
trichloroacetic acid.
10. (Currently amended) Composition according to claim 4, wherein the one of  
~~claims 4 to 9, characterized in that~~ it contains as sulphonic acid is sulphosalicylic acid (2-  
hydroxy-5-sulphobenzoic acid).
11. (Currently amended) Composition according to claim 1, containing from one  
~~of claims 1 to 10, characterized in that~~ it contains 1 to 4 different acids.
12. (Currently amended) Composition according to claim 1, wherein the one of  
~~claims 1 to 11, characterized in that~~ it contains as a polymer is a polysaccharide, a  
polyethylene glycol, a polyacrylic acid, a polyacrylamide, a polyvinylpyrrolidone or a mixture  
thereof of these substances.

13. (Currently amended) Composition according to claim 12, wherein the  
~~characterized in that it contains~~ as a polymer is a mixture of polyethylene glycol  
dimethacrylate and polyacrylic acid.
14. (Currently amended) Composition according to claim 1, further containing  
~~one of claims 1 to 13, characterized in that it also contains~~ fluoride ions.
15. (Currently amended) Composition according to claim 1, further containing  
~~one of claims 1 to 14, characterized in that it also contains~~ a potassium ion-releasing  
compound.
16. (Currently amended) Composition according to claim 1, further containing  
~~one of claims 1 to 15, characterized in that it also contains~~ a film-forming component.
17. (Currently amended) Composition according to claim 16, wherein the film-  
forming component is ~~characterized in that it contains~~ hydroxypropyl cellulose.
18. (Currently amended) Composition according to claim 1, containing one of  
~~claims 1 to 17, characterized in that it contains~~
- |                  |   |
|------------------|---|
| 0.5 to 40 wt.-%  | phosphonic acid and/or                                      |
| 1.0 to 40 wt.-%  | carboxyl and/or hydroxyl-group-containing polymer<br>and/or |
| 0.5 to 30 wt.-%  | of a film-forming component and/or                          |
| 0.1 to 1.0 wt.-% | fluoride ions and/or  |
| 0.1 to 10 wt.-%  | potassium ions and  |
| 0 to 97.8 wt.-%  | solvent.  |
19. (Currently amended) Composition according to claim 18, ~~characterized in~~  
~~that it contains additionally~~ further containing from 0.1 to 1.0 wt.-% flavourings.
20. (Currently amended) Composition according to claim 18, wherein the ~~or 19,~~  
~~characterized in that it contains~~ as a solvent is a mixture of ethanol and water.
21. (Currently amended) Composition according to claim 18, containing one of  
~~claims 18 to 20, characterized in that it contains~~

1 to 5 wt.-%	of at least one phosphonic acid,
3 to 7 wt.-%	polyacrylic acid,
15 to 25 wt.-%	polyethylene glycol dimethacrylate,
3 to 7 wt.-%	hydroxypropyl cellulose,
0.1 to 1.0 wt.-%	potassium fluoride,
0.05 to 0.2 wt.-%	flavouring and
53.8 to 76.9 wt.-%	ethanol/water mixture (approx. 50 wt.-%).

22. (Original) Kit containing an acid and in spatially separated form thereof an organic, carboxyl and/or hydroxyl-group-containing polymer.

23. (Currently amended) Kit according to claim 22, wherein ~~characterized in that~~ the acid is applied to a brush.

24. (Currently amended) Kit according to claim 22, containing ~~or 23,~~ ~~characterized in that~~ it contains a solution of the polymer, the composition of which is measured such that, when the solution is combined with the acid of the kit, a composition containing

<u>0.5 to 40 wt.-%</u>	<u>phosphonic acid and/or</u>
<u>1.0 to 40 wt.-%</u>	<u>carboxyl and/or hydroxyl-group-containing polymer</u>
	<u>and/or</u>
<u>0.5 to 30 wt.-%</u>	<u>of a film-forming component and/or</u>
<u>0.1 to 1.0 wt.-%</u>	<u>fluoride ions and/or</u>
<u>0.1 to 10 wt.-%</u>	<u>potassium ions and</u>
<u>0 to 97.8 wt.-%</u>	<u>solvent</u>

~~according to one of the claims 18 to 21~~ is obtained.

25. (Currently amended) Kit according to claim 22, wherein the ~~one of claims 22 to 24, characterized in that~~ acid and polymer are housed in different chambers of a double-chambered vessel.

26. (Currently amended) ~~Use of a composition as defined in claims 1 to 21~~ A method for the precipitation of protein comprising combining the composition of claim 1 with a protein solution.

27. (Currently amended) ~~Use of a composition as defined in claims 1 to 21~~ A method for the desensitization of teeth comprising applying the composition of claim 1 to a tooth.

28. (Canceled).